FILE 'HOME' ENTERED AT 14:47:05 ON 15 SEP 2004

=> file reg

Uploading 10659174.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

$$\begin{bmatrix} \text{CH}_2 \end{bmatrix}_{1-2} \\ \end{bmatrix}_{0-3} \text{Hy}$$

G1 H, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 11 full

L3 61 SEA SSS FUL L1

=> s 13 not 15

L6 26 L3 NOT L5

=> file ca

=> s 16

L7 1 L6

=> d ibib abs fhitstr hitrn

L7 ANSWER 1 OF 1 CA COPYRIGHT 2004 ACS ON STN ACCESSION NUMBER: 140:287396 CA 140:287396 CA
Preparation of antidepressant cycloalkylamine
derivatives of heterocycle-fused benzodioxans
Stack, Gary Paul; Evrard, Deborah Ann; Shah, Uresh
Shanrilal INVENTOR (S): Shantilal SMARLIAI Wyeth, John, and Brother Ltd., USA PCT Int. Appl., 68 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: Patent English KIND DATE

APPLICATION NO. DATE

00024732 A1 20040325 M0 2003-US28459 20030911
: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, ER, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, II, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LK, LI, LU, LW, MA, MD, MG, MK, MN, MM, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RJ, SC, SD, SR, SG, SK, SL, SY, TJ, TM, TN, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZM, AM, AZ, BY, KG, KZ, MD
: GH, GM, KE, LS, MH, MZ, SD, SL, SZ, TZ, UG, ZM, ZM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, M2
:IN, INFO: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. WO 2004024732 US 2004171667 PRIORITY APPLN. INFO.: US 2003-659174 A 20030910 OTHER SOURCE(S): MARPAT 140:287396

L7 ANSWER 1 OF 1 CA COPYRIGHT 2004 ACS on STN (Continued)
CN 1,4-bioxino[2,3-f]quinoline-2-methanamine,
N-[{1R,3S}-3-(5-f]uoro-1H-indol3-y1}cyclopentyl]-2,3-dihydro-8-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT

675819-31-9P 675879-32-0P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of antidepressent cycloalkylamine derivs. of heterocycle-fused benzodioxanu)
675879-38-4P 675879-39-5P 675879-30-8P 675879-31-1P 675879-31-14-1P 675879-31-14-1P 675879-31-14-1P 675879-31-1P 675879-3

(prepn. of antidepressant cycloalkylamine derivs. of heterocycle-fused benzodioxans)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

ANSWER 1 OF 1 CA COPYRIGHT 2004 ACS ON STN (Continued)

$$\underset{X}{\overset{R^1}{\bigvee}} \underset{Q}{\overset{Q}{\bigvee}} \underset{N}{\overset{R^2}{\bigvee}} \underset{n}{\overset{P}{\bigvee}} [\operatorname{CH}_2]_{\stackrel{Q}{p}} Q$$

The title compds. [I; R1 = H, halo, CN, carboxamido, etc.; R2 = H, alkyl; XY = N:CR3CR4:N, NCR3CR5:CH, N:CR3N:CH, N:CR3O, NHCR6:N, NHCR7:CH; R3, R4 = H, halo, NH2, mono- or dialkylamino, alkyl; R5 = H, alkyl; R6 = H,

H, halo, NH2, mono- or dislkylamino, alkyl; R5 = H, alkyl; R6 = H, C, C, pentafluoroethyl, NH2, etc.; R7 = H, halo, CF3, pentafluoroethyl, alkyl; O = II-IV (wherein Z = NR12, S, O; R8-R1i = H, OH, halo, CN, etc.; R12 = H, alkyl; m = 1-3; n = 1-2; p = 0-3] and their pharmaceutically acceptable salts, useful for the treatment of depression (including but not limited to major depressio tertenuatic attreased isnorder, permenstrual dysphoric disorder, post-traumatic stress disorder, permenstrual dysphoric disorder (also known as premenstrual syndrome), attention deficit disorder (with and without hyperactivity), obsessive compulsive disorder, social anxiety disorder, generalized anxiety disorder, obesity, eating disorders such as anorexia nervosa and bulimia nervosa, vasomotor flushing, cocaine and alc. addiction, sexual dysfunction and related illnesses, were prepot. Thus, reacting toluene-4-sulfonic acid ([28]-8-methyl-2,3-dinhydro[1,4]dioxino[2,3-f]quinolin-2-yl]methyl ester with cis-3-(1H-indol-3-yl)cyclopentylamine

DMSO afforded 18%
N-{(cis)-3-(1H-indol-3-yl)cyclopentyl]-N-{[(2S)-8-methyl-2,3-dihydro{1,4]dioxino{2,3-f]quinolin-2-yl]methyl}amine. The

exemplified plified compds. I were tested for 5-HT transporter affinity, 5-HTIA receptor affinity, and antagonistic activity at 5-HTIA receptors and biol. data were given. The pharmaceutical compn. comprising the compd. I is

claimed. IT 675879-31-9P

675879-31-9P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of antidepressant cycloalkylamine derivs. of heterocycle-fused benzodioxans)

675879-31-9 CA

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10/659,174
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=> file marpat

=> s 11 full

L9 10 SEA SSS FUL L1

=> d ibib abs fqhit 1-10

L9 ANSWER 1 OF 10 MARPAT COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 140.287396 MARPAT
TITLE: Preparation of antidepressant cycloalkylamine
derivatives of heterocycle-fused benzodioxans
INVENTOR(S): Stack, Gary Paul; Evrard, Deborah Ann; Shah, Uresh
Shahtilal SHARLING Wyeth, John, and Brother Ltd., USA PCT Int. Appl., 68 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE 024732 A1 20040325 W0 2003-US28459 20030911
AE. AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, PI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, CM, CT, LU, LV, MA, MD, MG, MK, MN, MN, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TT, TT, TZ, UJ, UG, US, UZ, VC, VN, YU, ZA, ZW, ZW, AM, EB, GH, GW, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GG, GW, ML, MR, NE, SN, TD, TG
US 2003-659174 20030910
US 2003-410072P 20020912 2004032 WO 2003-US28459 20030911 WO 2004024732 US 2003-659174 US 2002-410072P US 2003-659174 20030910 20020912 20030910 US 2004171667 PRIORITY APPLN. INFO.: GI

$$\begin{bmatrix} R^{2} & R^{2} & R^{3} \\ R^{11} & R^{11} & R^{11} & R^{11} \end{bmatrix} \xrightarrow{R^{2}} \begin{bmatrix} R^{2} & R^{3} \\ R^{2} & R^{3} \\ R^{11} & R^{11} & R^{11} \end{bmatrix}$$

ANSWER 1 OF 10 MARPAT COPYRIGHT 2004 ACS ON STN (Continued)

66 66

MPL: NTE:

claim 1
or pharmaceutically acceptable salts

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 1 OF 10 MARPAT COPYRIGHT 2004 ACS on STN (Continued)
The title compds. [I; Rl = H, halo, CN, carboxamido, etc.; R2 = H, alkyl;
XY = N:CR3CR4:N, NCR3CR5:CH, N:CR3N:CH, N:CR3O, NHCR6:N, NHCR7:CH; R3, R4
= H, halo, NH2, mono- or dialkylamino, alkyl; R5 = H, alkyl; R6 = H, H, halo, NH2, mono- or dislkylamino, alkyl; R5 = H, slkyl; R6 = H, CF3, pentafluoroethyl, NH2, etc.; R7 = H, halo, CF3, pentafluoroethyl, alkyl; Q = 11-1V (wherein Z = NR12, S, O; R8-R11 = H, OH, halo, CN, etc.; R12 = H, alkyl); m = 1-3; n = 1-2; p = 0-3] and their pharmaceutically acceptable salte, useful for the treatment of depression (including but not limited to major depressive disorder, childhood depression and dysthymia), anxiety, panic disorder, pont-traumatic atress disorder, premenatrual dysphoric disorder (also known as premenstrual syndrome), attention deficit disorder (with and without hyperactivity), obsessive compulsive disorder, social anxiety disorder, generalized anxiety disorder, obesity, eating disorders such as anorexia nervosa and bulimia nervosa, vasomotor flushing, cocaine and alc. addiction, sexual dysfunction and related illnesses, were prepd. Thus, reacting toluene-4-aulfonic acid ((28) =6-methyl-2,3-dihydro(1,4]dioxino[2,3 f]quinolin-2-yl]methyl ester with cis-3-(1H-indol-3-yl)cyclopentylamine in

DMSO afforded 181
N-{(cim)-3-(1H-indel-3-yl)cyclopentyl]-N-{((2S)-8-methyl-2,3-dihydro(1,4)dioxino[2,3-f]quinolin-2-yl]methyl}amine. The exemplified
compds. I were tested for 5-HT transporter affinity, 5-HTlA receptor affinity, and antagonistic activity at 5-HTlA receptors and biol. data were given. The pharmaceutical compn. comprising the compd. I is claimed.

MSTR 1

G13

= 66

L9 ANSWER 2 OF 10 MARPAT COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 140:287394 MARPAT
TITLE: 140:287394 MARPAT
Preparation of antidepressant cycloalkylamine
derivatives of 2,3-dihydro-1,4-benzodioxane
Evrend, Deborah Ann; Shah, Uresh Shantilal; Stack,
Gary Paul
Wyeth, John, and Brother Ltd., USA
EVT Int. Appl., 39 pp.
CODEN: PIXXD2
PALENT
PARD2
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PALENT
PALENT DOCUMENT TYPE: PATENT NO. KIND DATE

WO 2004024723 A1 20040325 | WO 2003-US28296 20030911

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, CG, EG, FI, GB, GD, GE, GH, GM, HR, HU ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LK, LS, LT, LU, LU, MA, MD, MG, MK, MN, MM, MX, NX, NX, CM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, KG, KZ, MD, RU

RN: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE\-DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, GW, ML, MR, NE, SN, TD, TG

US 2004127543 A1 20040701 US 2003-659193 20030910

PRIORITY APPLN. INPO:

The title compds. [I; R11, R1, R2 = H, halo, CN, carboxamido, etc.; R3 = H, alkyl; m = 1-3; n = 1-2; p = 0-3 (with the proviso that when p = 0, both m and n may not be 2); Q = II-IV (R4-R7 = H, halo, CN, etc.; X =

NRB. O, S: R8 = H, alkyl)], useful for the treatment of depression (including ANSWER 2 OF 10 MARPAT COPYRIGHT 2004 ACS on STN (Continued) but not limited to major depressive disorder, childhood depression and dysthymia), anxiety, panic disorder, post-traumatic stress disorder, premenstrual dysphoric disorder (also known as premenstrual syndrome), attention deficit disorder (with and without hyperactivity), obsessive compulsive disorder, social anxiety disorder, generalized anxiety disorder, obsestly, eating disorders such as anorexia nervosa and bulimia nervosa, vasomotor flushing, cocaine and alc. addiction, sexual dysfunction and related illnesses, were prepd. Thus, reacting [128].8-methoxy-2,3-dihydro-1,4-benzodioxin-2-yllmethyl 4-methylbenzeneulfonate with cin-3-(5-fluoro-1H-indol-3-yl)cyclopentylamine [prepn. given] in DNSO afforded 481 N-[(cisl-3-(5-fluoro-1H-indol-3-yl)cyclopentyl]-N-[(128)-8-methoxy-2,3-dihydro-1,4-benzodioxin-2-yllmethyl]amine. The latter was sepd. into two disstereoisomers and biol. data (5-HT transporter affinity, 5-HTIA receptors were tested) were given for the mixt. and both sepd. isomera. The pharmaceutical compn. comprising the compd. 1 is claimed.

claim 1 or pharmaceutically acceptable salts

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L9 ANSWER 3 OF 10 MARPAT COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:
137:369975 MARRAT

TITLE:
Preparation of 2-pyridine-cyclohexane-1,4-diamines as regulators of the ORL1 opioid receptor

SUNCETARY ASSIGNEE(S):
SURCE:
SURCE:
CODEN: PIXAD2
PATENT INFORMATION:

PATENT INFORMATION:

MARPAT COPYRIGHT 2004 ACS on STN

137:369975 MARRAT
PREPARATION OF COPYRIGHT 2004 ACS on STN

137:369975 MARRAT
PREPARATION:
Greman Barration Of Copyright 2004 ACS on STN

137:369975 MARRAT
PREPARATION:
GREMAN BARRAT

PATENT INFORMATION:

137:369975 MARRAT
PREPARATION:
GREMAN BARRAT

PREPARATION OF COPYRIGHT 2004 ACS on STN

137:369975 MARRAT
PREPARATION OF COPYRIGHT 2004 ACS on STN

137:369975 MARRAT
PREPARATION OF COPYRIGHT 2004 ACS on STN

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PREPARATION OF COPYRIGHT 2004 ACS on STN

107:369975 MARRAT
PREPARATION OF COPYRIGHT 2004 ACS ON STN

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PREPARATION OF COPYRIGHT 2004 ACS ON STN

107:369975 MARRAT
PREPARATION OF COPYRIGHT 2004 ACS ON STN

107:369975 MARRATION OF COPYRIGHT 2004 AC
  DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                      PATENT NO.
                                                                                                                                                                                                                                                                                             DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NO. DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO 2002-EP5078
                                                      WO 2002090330 W 20021114 WO 2002-EP5078 20020508
W: AB, AG, ALL AM, AT, AU, AZ, BB, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, LI, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
LT, LU, LV, NA, MD, MS, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
PT, RO, RU, ST, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TT, TZ, UA,
UG, US, UZ, VN, YO, ZA, ZM, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM

RM: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZM, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
DE 10123163 A1 20030116 DE 2001-10123163 2010509
EP 1365025 A1 20040204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
DE 10123163 A1 20040204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
NO 2003004931 A 20040102 US 2003-704200 20031110
DE 2001-10123163 20031105
PRIORITY APPLN: INFO:: US 20040729

PRIORITY APPLN: INFO:: US 20040729

GI
     TM
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L9 ANSWER 2 OF 10 MARPAT COPYRIGHT 2004 ACS on STN (Continued) THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

ANSWER 3 OF 10 MARPAT COPYRIGHT 2004 ACS on STN (Continued) ,

Title compds. I [R1, R2 = H, alkyl, cycloalkyl, etc. or R1 and R2

AB Title compds. I [R1, R2 = H, alkyl, cycloalkyl, etc. or R1 and R2 together form a ring, e.g., CH2CH2CH2CH2CH2, [CH2]3-6, CH2CH2NRSCH2CH2; R6 = H, alkyl, cycloalkyl, etc.; R3 = H, alkyl, (un) substituted cycloalkyl, etc.; R5 = (un) substituted cycloalkyl, x = 0, S; R7 = H, alkyl, cycloalkyl, etc.; R5 = (un) substituted cycloalkyl, aryl, heteroaryl, etc.] and their pharmaceutically acceptable salts were prepd. For example, reductive amination of ketone II, e.g., prepd. from 1,4-dioxaspiro[4.5] decan-8-one in 3-ateps, and tryptamine afforded after chromatog. the nompolar disetereomer of diamine III.3HCL. In ORL1 opioid receptor binding

assays, $$\rm 6^{-}specific$ examples of compds. I exhibited binding to the receptor with

values ranging from 0.013-0.47 .mu.M, e.g., the Ki of the nonpolar diastereomer of diamine III.HCL = 0.013 .mu.M. Compds. I may be useful

the treatment of anxiety, depression, epilepsy, etc.

MSTR 1

• 16

GI

ANSWER 3 OF 10 MARPAT COPYRIGHT 2004 ACS on STN (Continued)

G28 = 470

MPL: NTE:

claim 1 and salts, hydrates and/or protected derivatives also incorporates claims 16 and 17 and racemates and/or stereoisomers

REFERENCE COUNT:

THERE ARE 3 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 4 OF 10 MARPAT COPYRIGHT 2004 ACS on STN

HN-CH2Ph

Title compds. I [R1, R2 = H, alkyl, cycloalkyl, etc. or R1 and R2 together form a ring, e.g., CH2CH2OCH2CH2, (CH2)3-6, CH2CH2NR6CH2CH2; R6 = H,

cycloalkyl, etc.; R3 = alkyl, cycloalkyl, (un)substituted aryl, etc.; R4

H, alkyl, C(X)R7; X = 0, S; R7 = H, alkyl, cycloalkyl, etc.; R5 = cycloalkyl, aryl, heteroaryl, etc.] and their pharmaceutically acceptable salts were prepd. For example, reductive amination of ketone II. e.g., prepd. from 1.4-dioxaspiro(4.5)decan-8-one in 3-stepe, and benzylamine afforded after chromatog.. the nonpolar disatereomer of diamine III.HCL. In ORLI opinid receptor binding assays, 91-apecific examples of compds. I exhibited binding to the receptor with Ki values ranging from 0.0004-0.75.mu.M, e.g., the Ki of the nonpolar disatereomer of diamine III.HCL = 0.010 .mu.M. Compds. I may be useful in the treatment of anxiety, depression, epilepsy, etc.



Page 6

L9 ANSWER 4 OF 10 MARPAT COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 137:369762 MARPAT
TITLE: 137:369762 MARPAT
Preparation of cyclohexane-1,4-diamines as regulators of the ORLI opioid receptor
Sundermann, Bernd; Hennies, Hagen-Heinrich;
Englberger, Werner; Koegel, Babette-Yvonne
Gruenenthal G.m.b.H., Germany
PCT Int. Appl., 256 pp.
DOCUMENT TYPE: PATENT NUMBERS: German
FAMILY ACC. NUM. COUNT: 3 DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. IND DATE APPLICATION NO. DATE PATENT NO.

WO 2002090317

A1 20021714

WO 2002-EP5051 20020508

W. AE, AG AL, AM, ATP, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GN, HR, HU, TD, II, IN, IS, JF, KE, KG, KF, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, NN, MM, MX, MZ, NO, NZ, OM, PH, PI, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZM, AT, BE, CM, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BE 10123161 A1 20040303 EP 2002-738038 20020509

R: AT, BE, CH, CE, CG, CI, CM, GA, GN, GQ, GM, ML, NR, NE, SN, TD, TG DE 10123161 A1 20040303 EP 2002-738038 20020509

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RQ, MK, CY, AL, TR

NO 2003004930 A 20040105 NO 2003-4930 20031105

PRIORITY APPLN. INFO:: US 20040819 US 2003-704329 20031110

PRIORITY APPLN. INFO:: US 20040819 WG 2002-EP5051 20020508 GI

ANSWER 4 OF 10 MARPAT COPYRIGHT 2004 ACS on STN (Continued) - 470

MPL: NTE: NTE: NTE: claim 1 and salts, hydrates and/or protected derivatives also incorporates claims 57 and 58 substitution is restricted and racemates and/or stereoisomers

REFERENCE COUNT:

FORMAT

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

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L9 ANSWER 5 OF 10 MARPAT COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
TITLE: Preparation of cyclohexane-1,4-diamines as regulators of the .mu.-opioid receptor
INVENTOR(S): Priderichs, Elmar Josef; Sundermann, Bernd; Hinze, Claudia; Koegel, Babette-Yvonne
Gruenenthal G.m.b.H., Germany
PCT Int. Appl., 125 pp.
CODEN: PIXXD2
PATENT ACC. NUM. COUNT: 3
  LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                                                  KIND DATE
                       PATENT NO.
                                                                                                                                                                                            APPLICATION NO.
                                                        89783 A1 20021114 W0 2002-EP5122 20020509
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,
CO, CR, CU, (CZ, DK, DM, DZ, EC, EZ, ES, F1, GB, GD, GE,
HR, HU, ID, YLL, IN, JS, JF, KE, KG, KF, KR, KZ, LC, LK,
LT, LU, LV, NA, MD, NG, MK, MN, MM, MX, MZ, NO, NZ, OM,
FT, KO, RU, SD, ≤E, SS, SI, SK, SL, TJ, TM, TN, TR, TI,
UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
                       WO 2002089783
 TM

RNI GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, RE, CH, CY, DE, DK, ES, PI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BP, BJ, CP, CG, CI, CM, GA, GN, GG, GW, ML, MR, NE, SN, TD, TG

DE 10123163 A1 20030116 DE 2001-10123163 20010509

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRIORITY APPLN. INFO::

R1 APPLN. INFO::

R2 2002-2P5122 20020509
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ANSWER 5 OF 10 MARPAT COPYRIGHT 2004 ACS on STN claim 1 and salts and/or hydrates substitution is restricted and racemates and/or stereoisomers THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 10 MARPAT COPYRIGHT 2004 ACS on STN (Continued)

Title compds. I {R1, R2 * H, alkyl, cycloalkyl, etc. or R1 and R2 form a ring, e.g., CH2CH2OCH2CH2, (CH2)3-6, CH2CH2NR6CH2CH2; R6 = H,

cycloalkyl, etc.: R3 = alkyl, cycloalkyl, (un)substituted aryl, etc.; R4

H, alkyl, C(X)R7; X = 0, S; R7 = H, alkyl, cycloalkyl, etc.; R5 = cycloalkyl, aryl, beteroaryl, etc.] and their pharmaceutically acceptable salts were prepd. For example, reductive amination of ketone II, e.g., prepd. from 1,4-dioxaspiro[4.5] decan-8-one in 3-steps, and L-tryptophan

emter hydrochloride, followed by emter hydrolymim, afforded after chromatog, and workup the calcium malt of the nonpolar diamtereomer of diamine III. In .mu.-opioid receptor binding assays, 9-specific examples of compde. I exhibited binding to the receptor with Ki values ranging

 $0.0008\text{-}0.140\,$.mu.M, e.g., the Xi of the calcium salt of the nonpolar diastereomer of diamine III » $0.0011\,$.mu.M. Compds. I may be useful in the treatment of irritable bowel syndrome, diarrhea, peripheral pain, etc.

MSTR 1

L9 ANSWER 6 OF 10
ACCESSION NUMBER: 134:56563 MARPAT
ITILE: 114:56563 MARPAT
ITILE: Preparation of indol-3-ylcyclohexylamine derivatives for the treatment of depression Mewshaw, Richard E.; Zhou, Ping
ATERIT ASSIGNEE(S): American Home Products Corp., USA
SOURCE: USX.YAM
DOCUMENT TYPE: CODEN: USX.XAM
PATENT ACC. NUM. COUNT: 1

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE US 1999-287676 US 1998-104595P US 6162803 19990407 Α 20001219 PRIORITY APPLN. INFO.:

Compds. effective in treating disorders of the serotonin-affected neurol symptoms are provided, such compds. having the structure I [R1, R5 = H, halo, lower alkoxy, lower alkyl, cyano, trifluoromethyl; R2, R4 = H,

lower
 alkyl, Ph, substituted phenyl; R3 = H, lower alkyl; X, Y = O, NR6, CH2,
 wherein R6 = H, lower alkyl, Ph, substituted phenyl). E.g.,
 (3,4-dihydrobensol[1,4]oxazin-2-ylmethyl)-[cis-4-(5-fluoro-IH-indol-3 yl]cyclohexyl]amine and
 (3,4-dihydrobenso[1,4]oxazin-2-ylmethyl)-[trans-4 (5-fluoro-IH-indol-3-yl]cyclohexyl]amine were prepd.

or pharmaceutically acceptable salts

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

L9 ANSWER 6 OF 10 MARPAT COPYRIGHT 2004 ACS on STN (Continued) RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 7 OF 10 MARPAT COPYRIGHT 2004 ACS on STN

AB The title compds. [I; R1, R5 = H, halo, lower alkoxy, etc.; R2, R4 = H, lower alkyl, (un)substituted Ph; R3 = H, lower alkyl; X, Y = O, NR6, CH2; R6 = H, lower alkyl, (un)substituted Ph) or their pharmaceutically acceptable salts, effective in treating disorders of the serotonin-affected neurol. symptoms (5-H71A receptor active) such as depression and anxiety, were prepd. Thus, a multistep synthesis of cis-II and trans-II which showed Ki of 44 nM and 24 nM in ST[3H]paroxetine assay,

assay, resp., was given.

MSTR 1

O or pharmaceutically acceptable salts claim 1

THERE ARE 10 CITED REFERENCES AVAILABLE FOR

REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE

Page 8

L9 ANSWER 7 OF 10 MARPAT COPYRIGHT 2004 ACS ON STN
ACCESSION NUMBER: 131:286525 MARPAT
TITLE: Preparation of (indol-3-yl)cyclohexylamine
derivatives TITLE: derivatives for the treatment of depression (5-HT1 receptor antagonists)
Mewshaw, Richard Eric; Zhou, Ping
American Home Products Corporation, USA
PCT Int. Appl., 22 pp
CODEN: PIXXD2
Patent
English
1 INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 2000-542313 US 1998-57244 WO 1999-US7606 19980408 19990407

ANSWER 7 OF 10 MARPAT COPYRIGHT 2004 ACS on STN (Continued)

L9 ANSWER 8 OF 10
ACCESSION NUMBER:
TITLE:
130:311824 MARPAT
110:311824 MARPAT
1,4-Diffunctionalized cyclohexane derivatives as ligands of 5-HT1a receptors
PATENT ASSIGNEE(S):
SOURCE:
PATENT ASSIGNEE(S):
SOURCE:
POPURENT TYPE:
POPURENT TYPE:
POPURENT PIXD2
POCUMENT TYPE:
PATENT ASSIGNEE(S):
PATENT ASSIGNEE(S):
POPURENT TYPE:
POPURENT PIXD2
PATENT ASSIGNEE(S):
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DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

27122112																	
	TENT :																
WO	9920									199	8-FI	R220	7	1998	1014		
				CA,													
	RW:	AT,	BE,	CH,	CY,	DΕ,	DK,	ES,	FI,	FR,	GB,	GR,	IE.	IT,	LU,	MC,	NL
		PT,															
	2769								FR	199	7-12	2954		1997	1016	•	
FR	2769	913		В:	1	2000	0310										
CA	2306	429		A.	A.	1999	0429		CA	199	8-23	3064	29	1998	1014		
AU	9895	458		A:	1	1999	0510		AU	199	8 - 9	5458		1998	1014		
AU	7371	78		В:	2	2001	0809										
EP	1023	273		A:	1	2000	0802		EP	199	8-9	4906	3	1998	1014		
EP	1023	273		В:	1	2002	0605										
	R:								GB,	GR,	IT,	LI,	LU.	NL.	SE,	MC.	PT.
			FI														
BR	9812	939		А		2000	8080		BR	199	8-12	2939		1998	1014		
	2001																
AT	2185	53		E		2002	0615		AT	199	8 - 9	4906	3	1998	1014		
PT	1023	273		т		2002	1031		PT	199	B - 9	4906	3	1998	1014		
	2177																
CN	1127	490		В	-	2003	1112		CN	199	8 - 8	1103	В	1998	1014		
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L9 ANSWER 9 OF 10
ACCESSION NUMBER: 124:175827 MARPAT
TITLE: 4Antidepressant 3-(aminocycloalkenyl)indole-5-nitrile
derivatives
INVENTOR(S): Cipollina, Joseph A.; Matteon, Ronald J.; Sloan,
Charles P.
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: U.S., 7 pp. CODEN: USXXAM

Patent English

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5468767	A	19951121	US 1994-178073	19940106
US 5607961	A	19970304	US 1995-517999	19950822
PRIORITY APPLN. INFO.	:		US 1994-178073	19940106
GI				

Title compde. I [R1 = H or C1-4 alkyl; R2 = C1-4 alkyl or (CH2)pAr; Ar = (un)substituted Ph. pyridinyl, pyrimidinyl or 1,4-benzodioxan-2-yl; m = 0 or 1; n = 1-3; p = 0-4; dotted line = optional double bond) are claimed, and several examples were prepd. and tested for use as antidepreseants. For example, condensation of IH-indole-5-acetonitrile with 4-[(2-phenylethyl)aminoleyclohexanone (prepn. given) in EtON in the presence of pyrrolidine gave 35% title compd. II. Of 18 selected I (most with m = 0, all with n = 2 and double bond in ringl, all 18 compde. had ICSO for in vitro inhibition of 5-HT uptake activity of < 100 nM, and 14 compde. had ICSO of < 10 nM.

ANSWER 8 OF 10 MARPAT COPYRIGHT 2004 ACS on STN (Continued)
The title compds. I (A represents a group such as Q in which Ar itself
represents an arom. structure such as Ph or pyrimidinyl optionally
substituted by one or several groups such as C1-C3 alkyl, C1-C3 alkoxy,
trifluoromethyl or halogen; B represents a heterocyclic group such as:

Q2, etc.) were prepd. E.g., cis-2,4-dimethyl-6-{4-{4-pyrimidin-2-ylpiperazin-1-ylcyclohexylamino}-2H-1,2,4-triazine-3,5-dione was prepd. 5-HTla, D2 dopaminergic, and alpha.1-adrenergic affinities of I were detd. Antidepressant activity of I was studied.

and pharmaceutically acceptable acid salts claim 1 $\,$

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

ANSWER 9 OF 10 MARPAT COPYRIGHT 2004 ACS on STN

HN-22 -G2

or pharmaceutically acceptable acid addition salts claim ${\bf 1}$ = (1-3) CH2

L9 ANSMER 10 OF 10 MARPAT COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 123:83375 MARPAT
TITLE: (Aminomethyl)benzodioxanea and -benzopyrans as serotonergic receptor agonists Catt, John D.; Mattson, Ronald J. PATENT ASSIGNEE(S): Britotl-Myers Squibb, USA
U.S., & pp.
CODEN: USXXAM
DOCUMENT TYPE: PATENT INFORMATION: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5391570	A	19950221	US 1993-136521	19931014
US 5496847	A	19960305	US 1995-378116	19950124
US 5658941	Α	19970819	US 1995-572250	19951213
PRIORITY APPLN. INFO.			US 1993-136521	19931014
•			US 1995-378116	19950124

AB (Aminomethyl)benzopyran I or a pharmaceutically acceptable salt, amide or hydrate thereof wherein: n is 1,2 or 3; Cy is either II or III (m=0,1 or 2), with the Ph substituent at the 1 position of the cycloalkenyl or cycloalkenyl ring and the amino substituent at the 4 position; and R3 and R4 are independently H or C1-4 alkyl. Thus, e.g., reductive coupling of 2S-aminomethyl-1,4-benzodioxane with 4-(1,3-benzodioxol-5-yl)-4-hydroxycyclohexanone (prepn. glven) afforded cie-4-([2S-1,4-benzodioxan-2-yl)methylamino]-1-(1,3-benzodioxol-5-yl)cyclohexanol (S1%) which had an ICSG < 1 nM at the 5-HTIA receptor (serotonergic 5-HTIA agonist activity).

MSTR 2

L9 ANSWER 10 OF 10 MARPAT COPYRIGHT 2004 ACS on STN (Continued)

0-G1-0 40 42

and pharmaceutically acceptable salts and/or solvates disclosure $% \left(1\right) =\left(1\right) \left(1\right) \left($ DER:

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FILE 'REGISTRY' ENTERED AT 14:47:11 ON 15 SEP 2004 L1 STRUCTURE UPLOADED

L2 2 S L1 SAM

L3 61 S L1 FULL

L4 STRUCTURE UPLOADED

L5 35 S L4 FULL

L6 26 S L3 NOT L5

FILE 'CA' ENTERED AT 14:48:11 ON 15 SEP 2004

L7 1 S L6

FILE 'MARPAT' ENTERED AT 14:48:25 ON 15 SEP 2004

L8 0 S L1

L9 10 S L1 FULL

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STN INTERNATIONAL LOGOFF AT 14:49:30 ON 15 SEP 2004